

Attorney Docket No.: SIT-0107  
Inventors: Becker et al.  
Serial No.: 09/876,238  
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Page 2

In the Specification:

Please replace the paragraph beginning at page 1, line 5,  
with the following rewritten paragraph:

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*AG*  
--This work was supported by the United States National  
Science Foundation (NSF) under awards PHY-9722438 and PHY-9986692,  
ECS-98033997, and CTS-0078618; and by the U.S. Defense Advanced  
Research Projects Agency (DARPA) under contract DAAD19-99-1-0277.  
The U.S. Government has certain rights in this invention.--

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Please replace the paragraph beginning at page 7, line 30,  
with the following rewritten paragraph:

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*AG  
cont*  
--Another embodiment of the present invention provides a  
method of generating intense hydrogen Lyman- $\alpha$  or Lyman- $\beta$   
emissions or atomic oxygen and nitrogen emissions in the spectral  
range from 100 nm to 150 nm by placing the MHC discharge device  
into a sealed container which contains a high pressure gas or  
high pressure gas mixture. The high pressure gas mixture may be  
stagnant or may be flowed through the hole(s) in the MHC  
discharge device. Figure 3 shows emission spectra from a MHC  
discharge operated in high-pressure Ne with a small admixture of  
H<sub>2</sub> at 0.5 Torr. Two figures are shown, a scan covering the  
entire wavelength range from 70 to 125 nm (a) and a scan covering